

Title (en)

PACKAGING MACHINE WITH PHASED SPLIT-PITCH BARREL LOADER

Title (de)

VERPACKUNGSMASCHINE MIT FASSLADER MIT GESTAFFELTEN UND GETEILTEN SPITZENWERTEN

Title (fr)

ENSACHEUSE AYANT UN CHARGEUR CADENCÉ À TAMBOUR À PAS FRACTIONNÉ

Publication

EP 2370318 A4 20141224 (EN)

Application

EP 09836988 A 20091221

Priority

- US 2009068954 W 20091221
- US 20384108 P 20081229

Abstract (en)

[origin: US2010162668A1] A phased split-pitch barrel loader for a packaging machine has a leading loader arm assembly and a trailing loader arm assembly. Each loader arm assembly has a loader arm that carries a loader face on one end and the loader arm is extendable and retractable on guide rails. One loader arm is driven in a downstream direction by a first set of endless chains and the other is driven by a second set of endless chains. One of the endless chains can be advanced or retarded in phase relative to the other to move the loader arms further apart or closer together as they move in the downstream direction. This moves the loader faces further apart or closer together and the loader faces have fingers that interleave when the loader faces are brought together. Thus, a composite loader face having a predetermined area can be formed by moving the loader arm assemblies closer together or farther apart. The composite loader face is sized in each case to correspond to groups of articles such as beverage cans of different sizes and/or different configurations.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [IA] US 5896728 A 19990427 - DOMINO BRUCE D [US], et al
- [A] US 2007006552 A1 20070111 - MONCRIEF FRANK N [US], et al
- [A] US 6105338 A 20000822 - KALANY ROBERT M [US], et al
- See references of WO 2010078106A2

Designated contracting state (EPC)

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US 2010162668 A1 20100701; **US 9174753 B2 20151103**; AU 2009333054 A1 20110714; AU 2009333054 B2 20121122; CA 2746513 A1 20100708; CA 2746513 C 20130820; CN 102272005 A 20111207; CN 102272005 B 20130417; EP 2370318 A2 20111005; EP 2370318 A4 20141224; EP 2370318 B1 20161214; ES 2613408 T3 20170524; MX 2011006867 A 20110719; US 10179666 B2 20190115; US 2016009430 A1 20160114; WO 2010078106 A2 20100708; WO 2010078106 A3 20101014

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US 64330709 A 20091221; AU 2009333054 A 20091221; CA 2746513 A 20091221; CN 200980153038 A 20091221; EP 09836988 A 20091221; ES 09836988 T 20091221; MX 2011006867 A 20091221; US 2009068954 W 20091221; US 201514865367 A 20150925